



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/451,196	11/29/1999	RADESH MANIAN	081862.P149	8729

7590                    08/13/2003

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP  
12400 WILSHIRE BOULEVARD  
SEVENTH FLOOR  
LOS ANGELES, CA 90025

[REDACTED] EXAMINER

ZIA, SYED

ART UNIT	PAPER NUMBER
2131	11

DATE MAILED: 08/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/451,196

Applicant(s)

MANIAN ET AL.

Examiner

Syed Zia

Art Unit

2131

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --***Period for Reply****A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 02 June 2003.
- 2a) This action is **FINAL**.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.
- 4) Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-31 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).\* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)      4) Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_ .  
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)      5) Notice of Informal Patent Application (PTO-152)  
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.      6) Other:

## **DETAILED ACTION**

### ***Continued Prosecution Application***

1. The request filed on June 04, 2003 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09451196 is acceptable and a CPA has been established. An action on the CPA follows.

### ***Response to Amendment***

1. This office action is in response to arguments filed on April 29, 2003 (Paper No. 6). Original application contained Claims 1-31. Applicant amended Claims 1, 9, 17, and 25. Applicant left unchanged Claims 2-8, 10-16, 18-24, and 26-31. Therefore, presently pending claims are 1-31.

### ***Response to Arguments***

1. The arguments filed on April 29, 2003 (Paper No. 6) have been entered and made of record. Applicant's arguments have been fully considered but they are not persuasive because of the following reasons:
2. Regarding claim 1, 9, 17, and 25 applicants argued that the cited admitted prior art (APA) [Pei] does not disclose "*dividing a hardware schedule table into N logical schedule tables, separating the N logical schedule tables*"

This is not found persuasive. APA teaches and describes method consists of scheduling process that uses separate tables for available bit rate (ABR) traffic. Specifically, one static table indexes VPCs (virtual path connections) and identifies high and low priority VCCs (virtual path connections) for CBR (constant bit rate) and VBR (variable bit rate) traffic. There is a separate, *dynamic* ABR table associated with each respective VPC. When the scheduler accesses a line of the static table for a given cell transmit time it first identifies a VPC assigned that slot for its use. The scheduler processes CBR and VBR traffic using VCC identifiers from the indexed line of the static table. The scheduler also access a dynamic ABR table for the indexed VPC to retrieve a link list and append that list to a work list associated with the VPC (Fig. 1, 7, and col.11 line 25 to col.17 line 37).

3. As a result, APA does implement a system to schedule traffic in network using logical schedule tables.

4. Applicants clearly have failed to explicitly identify specific claim limitations, which would define a patentable distinction over prior arts.

The examiner is not trying to teach the invention but is merely trying to interpret the claim language in its broadest and reasonable meaning. The examiner will not interpret to read narrowly the claim language to read exactly from the specification, but will interpret the claim language in the broadest reasonable interpretation in view of the specification. Therefore, the examiner asserts that APA does teach or suggest the subject matter broadly recited in independent Claims 1, 9, 17 and 25. Dependent claims 2-8, 10-16, 18-24, and 26-31 are also

rejected at least by virtue of their dependency on independent claims and by other reason set forth in the this office action (Paper No. 11).

Accordingly, rejections for claims 1-31 are respectfully maintained.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Pei et al. (U. S. Patent 6,272,109).

Art Unit: 2131

4. Regarding claims 1, 9, 17 and 25 Pei teaches and describes a system, product and method that relates to techniques and devices for scheduling asynchronous transfer mode (ATM) traffic, for different bit rate services assigned to virtual circuit connections within a plurality of virtual path connections, for transmission over an ATM link, comprising:

- dividing a hardware schedule table into N logical schedule tables, the N logical schedule tables being separated by table delimiters and operating independently of one another; and assigning an identifier in a scheduling table, the scheduling table being one of the N logical schedule tables, the identifier corresponding to a connection in the network (col. 5 line 5 to col. 7 line 18, and col. 19 line 43 to col. 20 line 13).

5. Claims 2, 4, 10, 12, 18, 20 and 26 are rejected applied as above in rejecting claims 1, 9, 17 and 25. Furthermore, Pei

- each of the table delimiters corresponds to at least one unused entry in the hardware schedule table (Fig. 9 and col. 17 line 7 to line 38);  
- determining if a first entry requested by the network for the identifier is occupied; and assigning the identifier to a second entry if the first entry is occupied, the second entry being available for occupancy (col. 4 line 9 to line 41).

6. Claims 3, 5, 11, 13, 14, 19, 21, 22 and 27 are rejected applied as above in rejecting claims 2, 4, 10, 12, 18, 20 and 26. Furthermore, Pei teaches and describes a system and method for

transferring information through a communication medium and particularly, for scheduling the transmission of data packets across connections in a communication system, wherein:

- each of the N logical schedule tables corresponds to a class of service (col. 3 line 26 to line 45);
- assigning the identifier to the first entry if the first entry is available for occupancy (col. 5 line 57 to col. 6 line 7);
  - assigning the identifier to a third entry if the second entry coincides with one of the table delimiters, the third entry being a next available entry found from a beginning of the scheduling table (col. 6 line 8 to line 19 and col. 18 line 15 to line 33);
  - the scheduler assigns the identifier to a second entry if a first entry requested by the network for the identifier is occupied, the second entry being available for occupancy (col. 4 line 9 to line 41).

7. Claims 6, 15, 23, and 28 are rejected applied as above in rejecting 5, 14, 22 and 27.

Furthermore, Pei teaches and describes a mechanism for traffic scheduling, comprising:

- assigning the identifier to a third entry if the second entry coincides with one of the table delimiters, the third entry being a next available entry found from a beginning of the scheduling table (col. 6 line 8 to line 19 and col. 18 line 15 to line 33);
- the network is an asynchronous transfer mode (ATM) network (col. 3 line 20 to line 25).

8. Claims 7, 16, 24 and 29 are rejected applied as above in rejecting 6, 15, 23 and 28.

Furthermore, Pei teaches and describes an ATM network and virtual circuit connection, wherein:

- the network is an asynchronous mode transfer (ATM) network (col. 3 line 20 to line 25);
- the identifier is a virtual channel identifier (col. 2 line 17 to line 39).

9. Claims 8 and 30 are rejected applied as above in rejecting 7 and 29. Furthermore, Pei teaches and describes:

- the identifier is a virtual channel identifier (col. 2 line 17 to line 39).

10. Claim 31 is rejected applied as above in rejecting 7 and 29. Furthermore, Pei teaches and describes an ATM processing device, comprising:

- the network processor is a segmentation and reassembly processor (Fig. 3 and col. 8 line 23 to line 50).

### ***Conclusion***

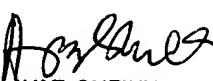
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Zia whose telephone number is 703-305-3881. The examiner can normally be reached on Monday - Friday 9:00 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-746-7240.

SZ  
August 7, 2003

  
AYAZ SHEIKH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100